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SEQUENCE LISTING

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Kenna, Paul

<120> Genetic Suppression and Replacement

<130> MUR-003

<140> US 09/155,708

<141> 1999-04-05

<150> PCT/GB97/00929

<151> 1997-04-02

<160> 28

<170> PatentIn version 3.0

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<211> 617

<212> DNA

<213> mammalian

<220>

<221> n

<222> (1)..(617)

<223> any

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ctctgcatgg atactcgtct tcgggccac aggatgcaat tgganggctc tttgcacctg 540
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agaacaactc cgctccc 617

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<211> 639

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PA
SUP
GID

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 <222> (1)..(639)
 <223> any

<220>
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 <223> C to G change at position 271

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 ggctgagcca tggcagttct ccatgctggc cgcctacatg tttctgctga tcgtgctggg 240
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 tttggaaggc ttcctttaac acccgggggg ggaaaattgc ctgtggtcct tgggtgtccg 480
 gncancnaac ggtacttgtg gtnnttaanc cataaacaat tccgcttcgg gaaaaacatg 540
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 <222> (1)..(686)
 <223> any

<220>
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 <223> CCC to CTC change at 216-218

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tcaccancac cctctacacc tctctgcatg gatacttcgt cttccgggcc acaggatgca 480
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<220>
<221> n
<222> (1)..(787)
<223> any

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nnnnnnnnnc cngnaaaan aacaactaat tttggaacc ccccccnaa aaccctttcc 720
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nnannng 787

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<213> mammalian

<220>

<221> n

<222> (1)..(665)

<223> any

<400> 5

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acgccccncc ttctcttctt cccttccttc ncccacttct cgggttccn tcaaccnaa 600
tcggggcccc ttaggtccaa ttatgcttcg gccccnccn aaactaatag gtnggttctt 660
tngcc 665
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<211> 624

<212> DNA

<213> mammalian

<220>

<221> n

<222> (1)..(624)

<223> any

<400> 6

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taagggcctc caccgatgt caccttggcc cctctgcaag ccaattagga cccggtggca 180
gcagtgggat tagcgtagt atgatatctc gcggatgctg aatcagcctc tggcttaggg 240
agagaaggtc actttataag ggtctggggg gggtcagtgc ctggagttgc gctgtgggag 300
ccgtcagtgg ctgagctcgc caagcagcct tggctctctg ctacgaaan cccgtggggc 360
agcctcnana accgcagcca tgaacggcac agaaggcccc aatttttatg tgcccttctc 420
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caacgtcaca ngcgtggtgc ggaaccctt cnancanccg cagtactacc tggcggaacc 480
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<211> 630
<212> DNA
<213> mammalian

<220>
<221> n
<222> (1)..(630)
<223> any

<220>
<221> misc_feature
<223> TTT to TCT transversion at position 189-191

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ctgtctacga agagcccggtg gggcagcctc gagagccgca gccatgaacg gcacagaggg 180
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<211> 649
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<221> n
<222> (1)..(649)
<223> any

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acatctgatg agtccgtgag gacgaaaaaa ttggtctaca gggccctatt ctataatgtc 180

acctaatagc tanagctcgc tgatcatcct cnaactgtgc ttctacttgc cagcctctcn 240

ttgtttgccc ctcccccgctg ccttccttga ccctggaagg tgccactccc actgtccttt 300

cctaataaaa tgaggaaatt gcatcgcatt gtctgagtaa gtgtcattct attctggggg 360

gtgggggtggg gcaggacnnc aaaggggaag attgggaaat acaatancca aggancnctc 420

ccccngggta attgcggtt nggctctntc gcttccttaa ggcnгааana aacaactngg 480

gcgctnccggg gtttcccccn ccnccctnt tagcnegca ttantcgccg cgggtgttgt 540

tgttactccc cacctnaacg ctacanttgc cagcgcttaa cggccccct tncntttctt 600

ccctcctttc tcncaacttc ccggctttcc cncceaanc naaatcngg 649

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<210> 9
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<212> DNA
<213> mammalian

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<220>
<221> n
<222> (1)..(681)
<223> any

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gagctengat ccactagtaa cggccgccag tgtgctggaa ttcttcagcg cccacgacca 180

gtgactatcc cctgctcaag ctgtgattcc gagaccctg ccaccactac tgcattcacg 240

ggggatccca ngctaattggg actcgacatg ggttgcccc acggcanctc cctacanctt 300

gggccanctn cacttttccc aaagnccaa atctccgcct ctgggctcnt taangttngg 360

ggtgggganc tgtgtgtgg gaaacaaccc agaananact tgggcagcat ggnngtactg 420

aaagtncatt ttgaacagaa naaacgggtcc antttggccc aaggnncnng ntcctaaant 480

ggttctcent ntttggtngn ntcncnctt tccncctngg aatgttctg aaaaattnaa 540

cnccaaaaaa gaacaaattg aaaaatantt ctnaaaaccc ttttgttncc cccccccna 600

aaaggaagg ggnnggnncc ttttnttcc cccccgggg ggggaaaatt ttnnnnaanc 660

ccccccccc cnttttttn a 681

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<210> 10
 <211> 612
 <212> DNA
 <213> mammalian

<220>
 <221> n
 <222> (1)..(612)
 <223> any

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 gattccgaga ccctgccac cactactgca ttcacggggg atcccaggct agtgggacnc 180
 gacatgggta tccccaggg cagctcccta cagcttgggc catctgcact tttcccaagg 240
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 aaccgggact acacttggca agcatggcgc tgctgaaagt caagtttgaa cagaaaaaan 360
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<210> 11
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <221> misc_feature
 <223> Forward mutation primer

<400> 11
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<210> 12
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <221> misc_feature
 <223> Forward 359 mutation primer

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20

<210> - 13
<211> 610
<212> DNA
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<220>
<221> n
<222> (1)..(610)
<223> any

<220>
<221> misc_feature
<223> A to G transversion at position 468

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tatcccctgc tcaagctgtg attccgagac ccctgccacc actactgcat tcacggggat 180
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nggtttcccc cccctnttt gggctgggca tcatcatctt tcagcctggg antgttctg 480
aanattgaac tcccaaagag ancgatgtga tgaataattc tgaaanccat tttgtgcccc 540
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nccctgaacc 610

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<211> 679
<212> DNA
<213> mammalian

<220>
<221> n
<222> (1)..(679)
<223> any

<400> 14
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<220>
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 <222> (1)..(691)
 <223> any

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<221> n

<222> (1)..(805)

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tccccaatgt cttattttta annanggttt naaanaannn nnnnnnnnnn nnnnnnnnnc 720
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<221> n

<222> (1)..(797)

<223> any

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ananagntga ctccatgtc ttntntnaa aagggttttn aaaaattaac cccccccctn 720
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aanttttttn tttttttt 797

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<212> DNA
<213> mammalian

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<220>
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<222> (1)..(697)
<223> any

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aagtccttnt ggccccccaa aaagggttccc ctaaagt 697

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<210> 19
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<212> DNA
<213> mammalian

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<220>
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 <223> human rhodopsin unadapted sequence with ribozyme cleavage site

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 <210> 20
 <211> 15
 <212> DNA
 <213> mammalian

 <220>
 <221> misc_feature
 <223> human rhodopsin adapted sequence

 <400> 20
 tacgtgaccg tccag 15

 <210> 21
 <211> 15
 <212> DNA
 <213> mammalian

 <220>
 <221> misc_feature
 <223> mouse rhodopsin unadapted sequence with ribozyme cleavage site

 <400> 21
 aatthttatg tgccc 15

 <210> 22
 <211> 15
 <212> DNA
 <213> mammalian

 <220>
 <221> misc_feature
 <223> mouse rhodopsin adapted sequence

 <400> 22
 aatttctatg tgccc 15

 <210> 23
 <211> 15
 <212> DNA
 <213> mammalian

 <220>
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 <223> human peripherin unadapted sequence with ribozyme cleavage site

 <400> 23
 gcgctactga aagtc 15

<210> 24
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 <220>
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 <223> human peripherin adapted sequence

 <400> 24
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 <210> 25
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 <212> DNA
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